

Claims:

1. A slip shaft assembly for use with a steering column, comprising:
an elongated tubular outer shaft;
an elongated inner shaft extending lengthwise within said outer shaft; and
a slip joint coupling said inner and outer shafts and operative to transmit torque in opposite directions between said shafts and to enable relative axial movement between said shafts, said slip joint including a plurality of rollers mounted on said inner shaft for rotation about respective roller axes transverse to a longitudinal axis of said inner shaft, said slip joint including a single roller track surface associated with each of said rollers on said outer shaft and engaging and rollably supporting each associated roller on only one side thereof during transmission of said torque in said opposite directions.
2. The assembly of claim 1 wherein said rollers are provided in diametrically opposite, opposed pairs, and wherein there are at least two sets of said roller pairs.
3. The assembly of claim 2 wherein said outer shaft includes four of said roller track surfaces, two of which are associated with a first of said sets of said roller pairs, and the remaining two of which are associated with at least a second of said sets of said roller pairs.
4. The assembly of claim 3 wherein said sets of roller pairs are arranged 90 offset from one another.
5. The assembly of claim 4 wherein said single roller track surfaces associated with said first set of roller pairs are arranged to transmit torque between said inner and outer shafts in one direction through contact with a first side of said rollers of said first set, and said single set of roller track surfaces associated with said second set of said roller pairs are arranged to transmit torque between the

shafts in the opposite direction through contact with an opposite second side of said rollers of said second set.

6. The assembly of claim 1 wherein said rollers are unsupported by said outer shaft apart from said contact with said single track support surfaces.